Special Issue

Advanced Research on Digital Twins in Hydro Systems

Message from the Guest Editors

We are pleased to invite submissions for a Special Issue on "Advanced Research on Digital Twins in Hydro Systems", focusing on the transformative potential of digital twin technology across various hydrological segments. This Special Issue aims to bring together cutting-edge research and innovative practices that explore the application of digital twins—from smart systems to real-time integrated twins—in managing and optimizing water resources and infrastructures. This Special Issue seeks contributions that span a range of topics related to digital twins in hydro systems, including, but not limited to, the following:

- Urban Digital Twins for Water Management
- Digital Twins for Rivers and Surface Water Systems
- Lakes and Reservoirs
- Groundwater Systems
- Sewer and Drainage Systems
- Cross-cutting Themes and Technologies
- Nexus of Hydrological Systems via Digital Segmental Twins

Guest Editors

Prof. Dr. Jürgen Stamm

Faculty of Civil Engineering, Technische Universität Dresden, 01069 Dresden, Germany

Prof. Dr. Dongkyun Kim

Department of Civil Engineering, Hongik University, Seoul 04066, Republic of Korea

Deadline for manuscript submissions

20 October 2025

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/234291

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/journal/water

About the Journal

Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

MDPI